## **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
A 7724 / KK	ACTION	l as, where applicable, Item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP2005/000038	05/01/2005	05/01/2004
Applicant		
AIRBUS DEUTSCHLAND GMBH		
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this international Searching Autansmitted to the international Bureau.	thority and is transmitted to the applicant
This international Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in this	s report.
Basis of the report     a. With regard to the language, the	International search was carried out on the ba	asis of the international application in the
	less otherwise Indicated under this item.	
The International this Authority (Ru	search was carried out on the basis of a trans ile 23.1(b)).	slation of the International application furnished to
b. With regard to any nucle	otide and/or amino acid sequence disclose	d in the International application, see Box No. i.
2. Certain claims were fou	ind unsearchable (See Box II).	
3. X Unity of Invention is lac	king (see Box III).	
4. With regard to the title,		
X the text is approved as si	ubmitted by the applicant.	
the text has been establi	shed by this Authority to read as follows:	
_		
1		
[		
	4	
<ol><li>With regard to the abstract,</li></ol>		
	ubmitted by the applicant.	
the text has been establi may, within one month fr	shed, according to Rule 38.2(b), by this Autho om the date of mailing of this International sea	ority as it appears in Box No. IV. The applicant arch report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be	published with the abstract is Figure No. 2	
X as suggested by		
	nis Authority, because the applicant falled to s	
	his Authority, because this figure better charac	cterizes the invention.
b. none of the figures is to	be published with the abstract.	

### INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This into	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. 🗌	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
з. [_	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Fulle 6.4(a).
_	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)  emational Searching Authority found multiple inventions in this international application, as follows:
1. X	see additional sheet  As all required additional search tees were timely paid by the applicant, this international Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Rema	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,5,6,7,8,13,14,15

Aircraft fuselage outer skin made of burn-through resistant, either metallic or non-metallic material.

2. claims: 2,3,4,5,6,7,9,10,11,12,13,14,15,16

Aircraft fuselage outer skin made of a hybrid compound, the compound combining a metallic and a non-metallic material.

# A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B64C1/40. B64C1/00 A62C3/08

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B64C A62C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	GB 919 839 A (BRONZAVIA) 27 February 1963 (1963-02-27) page 1, lines 10-14,30-34,43-47,52-64 page 2, lines 85-98; figures	1,8
X	EP 0 475 677 A (BRITISH AEROSPACE PUBLIC LIMITED COMPANY) 18 March 1992 (1992-03-18) column 3, 11nes 35-42; figures	1,8
x	US 5 154 373 A (SCOTT ET AL) 13 October 1992 (1992-10-13) column 1, line 49 - column 2, line 21 column 2, line 51 - column 3, line 18 column 3, line 48 - column 4, line 31; figures  -/	1,5-7, 13,14

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.			
* Special categories of cited documents:  *A" document defining the general state of the art which is not considered to be of perficults relevance  *E" earlier document but published on or after the international filling data  *L" document which may threw dockbe on priority relating to relating the control of earlier the publication date of shother clation or other special reason (as specified)  *C" document referring to an oral disclosure, use, exhibition or other means  *P" document published prior to the international filling date but later than the priority date claimed	17 later document published after the international filling date or profession and not conflict with the application but clidd to understand the principle or theory underlying the invention.  12 document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to cannot be considered to cannot be considered to cannot be considered to the considered to cannot be considered to the considered to the considered to the considered to the claimed invention cannot be considered to time to enter the claimed invention cannot be considered to time to enter the claimed invention cannot be considered to the rowled an invention step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the sut.  13 document member of the same patent family			
Date of the actual completion of the international search	Date of mailing of the international search report  1 2 09 2005			
29 July 2005  Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentisan 2	Authorized officer			
NL – 2280 HV Bijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 240–3016	Salentiny, G			

		PC1/EP2005/000038		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Nelevani to Claim No.		
A	US 2002/017590 A1 (FAY RALPH MICHAEL ET AL) 14 February 2002 (2002-02-14) the whole document	1,5-8, 13-15		
A	EP 1 164 006 A (JOHNS MANVILLE INTERNATIONAL INC) 19 December 2001 (2001-12-19)			
A	DE 44 17 889 A1 (BURKHART GROB LUFT- UND RAUMFAHRT MMBH & CO. KG, 86874 TUSSENHAUSEN, D) 23 November 1995 (1995-11-23) column 1, lines 3-12; figures	1		
X	US 6 286 785 B1 (KITCHEN NICHOLAS DONALD) 11 September 2001 (2001-09-11) column 1, lines 20-35 column 1, lines 66 - column 2, line 8 column 2, lines 24-42 column 5, line 43 - column 6, line 21 column 7, lines 19-25 column 11, lines 39-42; figures	2,4,10,		
X	US 6 114 050 A (WESTRE ET AL) 5 September 2000 (2000-09-05) column 1, lines 11-16 column 2, lines 31-44 column 3, lines 51-61 column 5, lines 1,2 column 16, lines 19-37 column 10, lines 35-59 column 13, lines 45-52; figures	2-4,9, 10,16		
X	DE 202 20 600 U1 (EUROCOPTER DEUTSCHLAND GMBH) 24 December 2003 (2003-12-24) paragraphs '0016!, '0019!, '0021! - '0023!, '0027!, '0030! - '0038!, '0053!, '0054!; figures	2-4,9, 10,16		
A	US 2 945 653 A (ATKIN EDBAR H) 19 July 1960 (1960-07-19) column 1, lines 15-29 column 2, lines 18-28,47-61 column 3, lines 23-45,64-74 column 4, lines 6-11; figures	1-16		
A	US 4 310 132 A (FROSCH ET AL) 12 January 1982 (1982-01-12) column 2, lines 31-37	11		
A	US 5 051 300 A (ROUSSEAU ET AL) 24 September 1991 (1991-09-24) abstract	11		
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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The fuselage is conceived in such a way as to prevent the spread of flames produced by a source of fire and acting on the fuselage from outside the aircraft environment. The fuselage concept takes into account materials or material combinations that will scarcely allow protection of the cabin area of an aircraft (upon emergency landing) to be violated by flames spreading from outside the aircraft environment, which may facilitate an evacuation of passengers from the aircraft.

An aircraft fuselage, whose fuselage structure, in addition to other structural elements that are components of the mechanical strength bracing of the fuselage and help absorb its forces, encompasses an exterior skin (2) consisting of various respective materials, which are designed to be resistant to shear, and incorporated as a bearing element into the mechanical strength bracing (6.7.8) to absorb and transfer the forces and torques acting thereupon. The exterior skin (2) is fabricated from a burn-through resistant semi-finished material consisting of a non-metallic material or a fireproof metallic material, wherein the semi-finished material can be molded through further processing. Also, the exterior skin may be realized by a semi-finished material combining a non-metallic material and a metallic material, wherein the produced exterior

skin product is a hybrid material that can be molded and joined through further processing.